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DRAWINGS ATTACHED

1,125,089



Inventor:—ANTONY PETER ROYLE

Date of filing Complete Specification: 14 August, 1967.

Application Date: 9 September, 1966.

No. 40310/66

1,125,089

Complete Specification Published: 28 August, 1968.

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Index at Acceptance:—H2 H2B2; G1 U12A1.

Int. Cl.:—B 60 q 9/00.

ERRATUM

SPECIFICATION NO. 1,125,089

Page 2, lines 10/11, Transpose lines 10 and 11

THE PATENT OFFICE, 29th January 1969

D 111765/6

10 testing an occasional lamp on a road vehicle. 16 will be illuminated. Where two stop By an occasional lamp is meant a lamp which is illuminated from time to time, for example a stop lamp, as distinct from a lamp which is illuminated continuously as

15 desired, as for example a tail or side lamp. A circuit according to the invention includes a resistor and a manually operable switch connected across the switch which when closed serves to illuminate the 20 occasional lamp, said manually operable switch being movable by a driver of the vehicle from an off position to a first 25 and to a second position in which it maintains the circuit to the occasional lamp and at the same time connects a testing lamp

The accompanying drawing is a circuit 30 diagram illustrating one example of the invention.

Referring to the drawing, the vehicle battery 11 has its negative terminal earthed and its positive terminal connected to a 35 switch 12 which is closed when the brakes of the vehicle are operated, and when closed completes a circuit to a stop lamp 13 on the vehicle. Connected across the switch 12 is a resistor 14 and a manually operable

40 switch 15 which is movable from an off position shown to a first operative position in which it completes a circuit to the lamp 13 by way of the resistor 14. The switch 15

[Price 4s. 6d.]

across the resistor.

This invention relates to a circuit for the lamp 13 is operative, the testing lamp lamps 13 are connected in parallel, the circuit parameters are so chosen that if only 55 one of the lamps 13 is operative, the lamp 16 will still not be illuminated although a circuit is still completed through the resistor

If the parallel combination of the lamp 16 60 and resistor 14 were to be connected directly across the switch 12 with the switch 12 in its open position, a current would flow through the cold lamp 13 which would be sufficient to develop across the resistor 14 65 position in which it completes a circuit to a voltage sufficient to blow the lamp 16. the occasional lamp through the resistor. This possibility is prevented by the switch 15, which ensures that the circuit of the lamp 13 is completed, so that when the lamp 16 is connected to the lamp 13, the 70 lamp 13 will have a substantially higher resistance than it has in its cold condition.

In a modification, the resistor 14 is replaced by a thermistor having a high positive temperature co-efficient of resist- 75 ance, thereby increasing the voltage differential across the thermistor when the lamp being tested is satisfactory and has failed.

WHAT WE CLAIM IS:—

1. A circuit for testing an occasional lamp on a road vehicle, comprising a resistor and a manually operable switch connected across the switch which when closed serves to illuminate the occasional 85 lamp, said manually operable switch being

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COMPLETE SPECIFICATION

Circuit for testing an occasional lamp on a road vehicle

WE, JOSEPH LUCAS (INDUSTRIES) LIMITED of Great King Street, in the City of Birmingham, 19, a British Company, do hereby declare the invention for which we 5 pray that a Patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to a circuit for 10 testing an occasional lamp on a road vehicle. By an occasional lamp is meant a lamp which is illuminated from time to time, for example a stop lamp, as distinct from a lamp which is illuminated continuously as 15 desired, as for example a tail or side lamp.

A circuit according to the invention includes a resistor and a manually operable switch connected across the switch which when closed serves to illuminate the 20 occasional lamp, said manually operable switch being movable by a driver of the vehicle from an off position to a first position in which it completes a circuit to the occasional lamp through the resistor, 25 and to a second position in which it maintains the circuit to the occasional lamp and at the same time connects a testing lamp

The accompanying drawing is a circuit 30 diagram illustrating one example of the invention.

across the resistor.

Referring to the drawing, the vehicle battery 11 has its negative terminal earthed and its positive terminal connected to a 35 switch 12 which is closed when the brakes of the vehicle are operated, and when closed completes a circuit to a stop lamp 13 on the vehicle. Connected across the switch 12 is a resistor 14 and a manually operable witch 15 which is movable from an off position shown to a first operative position in which it completes a circuit to the lamp 13 by way of the resistor 14. The switch 15 [Price 4s. 6d.]

position in which it connects a testing lamp 45 16 across the resistor 14, whilst at the same time maintaining the circuit to the lamp 13 through the resistor 14 and the testing lamp 16 in parallel.

When it is desired to test the lamp 13, 50 the switch 15 is operated, so that provided the lamp 13 is operative, the testing lamp 16 will be illuminated. Where two stop lamps 13 are connected in parallel, the circuit parameters are so chosen that if only 55 one of the lamps 13 is operative, the lamp 16 will still not be illuminated although a circuit is still completed through the resistor 14.

If the parallel combination of the lamp 16 60 and resistor 14 were to be connected directly across the switch 12 with the switch 12 in its open position, a current would flow through the cold lamp 13 which would be sufficient to develop across the resistor 14 65 a voltage sufficient to blow the lamp 16. This possibility is prevented by the switch 15, which ensures that the circuit of the lamp 13 is completed, so that when the lamp 16 is connected to the lamp 13, the 70 lamp 13 will have a substantially higher resistance than it has in its cold condition.

In a modification, the resistor 14 is replaced by a thermistor having a high positive temperature co-efficient of resist-75 ance, thereby increasing the voltage differential across the thermistor when the lamp being tested is satisfactory and has failed.

J. A circuit for testing an occasional lamp on a road vehicle, comprising a resistor and a manually operable switch connected across the switch which when closed serves to illuminate the occasional 85 lamp, said manually operable switch being

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movable by a driver of the vehicle from an off position to a first position in which it completes a circuit to the occasional lamp through the resistor, and a second position in which it maintains the circuit to the occasional lamp and at the same time

connects a testing lamp across the resistor.

2. A circuit as claimed in Claim 1, in which said resistor is a thermistor.

Chartered Patent Agents,

MARKS & CLERK,

Agents for the Applicants.

Printed for Her Majesty's Stationery Office by The Tweeddale Press Ltd., Berwick-upon-Tweed, 1968.

Published at the Patent Office, 25 Southampton Buildings, London, W.C.2. from which copies may be obtained.

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COMPLETE SPECIFICATION

I SHEET

This drawing is a reproduction of the Original on a reduced scale.

